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Gencore version 4.5

**4 nucleic - nucleic search, using sw model**

in on:

February 5, 2002, 16:26:13 : Search time 3596.51 seconds  
 (without alignments) 2456.000 Million cell updates/sec

**title:** US-09-509-591-1  
**sequence:** 1 GCAATGCGCTGAATCTGTAA.....TTCCACCACTGCCATAACA 822

**scoring table:** IDENTITY.NUC  
 Gapop 10.0 , Gapext 1.0

**searched:** 11351937 seqs, 5372889281 residues

**total number of hits satisfying chosen parameters:** 22703874

**minimum DB seq length:** 0

**maximum DB seq length:** 200000000

**blast-processing:** Minimum Match 0%  
 Maximum Match 100%  
 Listing first: 45 summaries

**database :** EST:\*

1: em\_estfun:\*

2: em\_esthum:\*

3: em\_estin:\*

4: em\_eston:\*

5: em\_estpl:\*

6: em\_estba:\*

7: em\_estrc:\*

8: em\_estov:\*

9: em\_htc:\*

10: gb\_est1:\*

11: gb\_est2:\*

12: gb\_htc:\*

13: gb\_gss:\*

14: em\_gss\_fun:\*

15: em\_gss\_hum:\*

16: em\_gss\_inv:\*

17: em\_gss\_pln:\*

18: em\_gss\_pro:\*

19: em\_gss\_rid:\*

20: em\_gss\_vrt:\*

21: em\_gss\_other:\*

**pred. No.** is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

**SUMMARIES**

result NO.	score	Query Length	DB ID	Description
1	197.2	24.0	556	13. AQQ05402
2	197.85	10.3	873	10. AII121310
3	52.2	6.4	1101	13. CNS0100X
4	51.2	6.2	574	13. AQ88165
5	47	5.7	456	11. BF770244
6	46.4	5.6	553	13. AQ542774
7	46.2	5.6	749	13. AQ713299
8	45.4	5.5	534	13. BF770233
9	44.6	5.4	1101	13. CNS0039G
10	44.2	5.4	551	13. AQ248096
11	43.8	5.3	364	10. AA587883
12	43.8	5.3	417	11. BF773318

**RESULTS**

REFERENCE	LOCUS	DEFINITION	ACCESSION	VERSION	KEYWORDS	SOURCE	ORGANISM
1	AQ005402/C	CIT-HSP-2293G2.TP CTR-HSP Homo sapiens genomic clone 2293G2, DNA sequence.	AQ005402	1	GSS	27-JUN-1998	Homo sapiens
2	AQ005402/C	CIT-HSP-2293G2.TP CTR-HSP Homo sapiens genomic clone 2293G2, DNA sequence.	AQ005402	1	GSS	27-JUN-1998	Homo sapiens
3	AQ005402/C	CIT-HSP-2293G2.TP CTR-HSP Homo sapiens genomic clone 2293G2, DNA sequence.	AQ005402	1	GSS	27-JUN-1998	Homo sapiens
4	AQ005402/C	CIT-HSP-2293G2.TP CTR-HSP Homo sapiens genomic clone 2293G2, DNA sequence.	AQ005402	1	GSS	27-JUN-1998	Homo sapiens
5	AQ005402/C	CIT-HSP-2293G2.TP CTR-HSP Homo sapiens genomic clone 2293G2, DNA sequence.	AQ005402	1	GSS	27-JUN-1998	Homo sapiens
6	AQ005402/C	CIT-HSP-2293G2.TP CTR-HSP Homo sapiens genomic clone 2293G2, DNA sequence.	AQ005402	1	GSS	27-JUN-1998	Homo sapiens
7	AQ005402/C	CIT-HSP-2293G2.TP CTR-HSP Homo sapiens genomic clone 2293G2, DNA sequence.	AQ005402	1	GSS	27-JUN-1998	Homo sapiens
8	AQ005402/C	CIT-HSP-2293G2.TP CTR-HSP Homo sapiens genomic clone 2293G2, DNA sequence.	AQ005402	1	GSS	27-JUN-1998	Homo sapiens
9	AQ005402/C	CIT-HSP-2293G2.TP CTR-HSP Homo sapiens genomic clone 2293G2, DNA sequence.	AQ005402	1	GSS	27-JUN-1998	Homo sapiens
10	AQ005402/C	CIT-HSP-2293G2.TP CTR-HSP Homo sapiens genomic clone 2293G2, DNA sequence.	AQ005402	1	GSS	27-JUN-1998	Homo sapiens
11	AQ005402/C	CIT-HSP-2293G2.TP CTR-HSP Homo sapiens genomic clone 2293G2, DNA sequence.	AQ005402	1	GSS	27-JUN-1998	Homo sapiens
12	AQ005402/C	CIT-HSP-2293G2.TP CTR-HSP Homo sapiens genomic clone 2293G2, DNA sequence.	AQ005402	1	GSS	27-JUN-1998	Homo sapiens

**ALIGMENTS**

REFERENCE	LOCUS	DEFINITION	ACCESSION	VERSION	KEYWORDS	SOURCE	ORGANISM
1	AQ005402/C	CIT-HSP-2293G2.TP CTR-HSP Homo sapiens genomic clone 2293G2, DNA sequence.	AQ005402	1	GSS	27-JUN-1998	Homo sapiens
2	AQ005402/C	CIT-HSP-2293G2.TP CTR-HSP Homo sapiens genomic clone 2293G2, DNA sequence.	AQ005402	1	GSS	27-JUN-1998	Homo sapiens
3	AQ005402/C	CIT-HSP-2293G2.TP CTR-HSP Homo sapiens genomic clone 2293G2, DNA sequence.	AQ005402	1	GSS	27-JUN-1998	Homo sapiens
4	AQ005402/C	CIT-HSP-2293G2.TP CTR-HSP Homo sapiens genomic clone 2293G2, DNA sequence.	AQ005402	1	GSS	27-JUN-1998	Homo sapiens
5	AQ005402/C	CIT-HSP-2293G2.TP CTR-HSP Homo sapiens genomic clone 2293G2, DNA sequence.	AQ005402	1	GSS	27-JUN-1998	Homo sapiens
6	AQ005402/C	CIT-HSP-2293G2.TP CTR-HSP Homo sapiens genomic clone 2293G2, DNA sequence.	AQ005402	1	GSS	27-JUN-1998	Homo sapiens
7	AQ005402/C	CIT-HSP-2293G2.TP CTR-HSP Homo sapiens genomic clone 2293G2, DNA sequence.	AQ005402	1	GSS	27-JUN-1998	Homo sapiens
8	AQ005402/C	CIT-HSP-2293G2.TP CTR-HSP Homo sapiens genomic clone 2293G2, DNA sequence.	AQ005402	1	GSS	27-JUN-1998	Homo sapiens
9	AQ005402/C	CIT-HSP-2293G2.TP CTR-HSP Homo sapiens genomic clone 2293G2, DNA sequence.	AQ005402	1	GSS	27-JUN-1998	Homo sapiens
10	AQ005402/C	CIT-HSP-2293G2.TP CTR-HSP Homo sapiens genomic clone 2293G2, DNA sequence.	AQ005402	1	GSS	27-JUN-1998	Homo sapiens
11	AQ005402/C	CIT-HSP-2293G2.TP CTR-HSP Homo sapiens genomic clone 2293G2, DNA sequence.	AQ005402	1	GSS	27-JUN-1998	Homo sapiens
12	AQ005402/C	CIT-HSP-2293G2.TP CTR-HSP Homo sapiens genomic clone 2293G2, DNA sequence.	AQ005402	1	GSS	27-JUN-1998	Homo sapiens

**REFERENCES**

- 1 (bases 1 to 556)

**AUTHORS**

Adams, M.D., Rounsley, S.D., Zhao, S., Field, C.E., Bass, S., Linher, K., Goldenk, J., Berry, K., Granger, D., Suh, E., Wible, C., Shizuya, H., Simpson, M. and Venter, J.C. End sequence Database for Sequence-Ready Map Building (1998) Unpublished (1998)

**JOURNAL**

**COMMENT**

The Institute for Eukaryotic Genomics Department of Molecular Medicine, The Rockville, MD 20850, USA

**REFERENCE**

Reil, J. Mol. Biol. 208: 0206

**FEATURES**

Clones are available from Research Genetics ([info@resgen.com](http://www.tigr.org/tigrdb/human/bac_end_search/bac_end_search.html)). BAC end sequence Database for Sequence-Ready Map Building ([http://www.tigr.org/tigrdb/human/bac\\_end\\_search/bac\\_end\\_search.html](http://www.tigr.org/tigrdb/human/bac_end_search/bac_end_search.html)) Seq primer (M1-21); Class PACB; Location/Qualifiers

**REFERENCE**

AB614814 hg00a02.x

AB65091 CIT-HSP-201

AC427571 CIR-BEL-10

B95393 CIT-ISP-216

AO665278 HS\_3360\_A

AO664634 Drosophili

AO62875 Drosophili

AQ204327 HS\_313.B

AQ14643 RPC111-10

B8698 RPC111-2P14

AL07166 Drosophili

BF00338 EST32381

AG377584 RPC111-16

AL069119 Drosophili

AL070547 Drosophili

AO104872 HS\_216\_B

AK790739 HS\_212.r

AL06896 Drosophili

AL106121 Drosophili

AL622800 np77b08.s

A130342 w159d12.x

AQ372805 RPC111-15

AL07778 Drosophili

AL07185 Drosophili

AL067540 Drosophili

AL108171 Drosophili

AQ29595 CIR-BEL-

BS030762 wa58942.MA

AL07778 Drosophili

BB889090 601513532

AG527553 ENTP91R

AZ529784 ENTBD24TF



BASE COUNT	ORIGIN	E-COLI DH10B*	note="Organ": sperm; vector: pBelBAC11; BAC Clones in
171	a	123	9
177	t	84	9
19	others		
Query Match			
Best Local Similarity	63.1%	Score 51.2;	DB 13; Length 574;
Matches	94	Pred. No. 0.21;	Mismatches 0;
REFERENCE	4	Indels 1;	Gaps 1;
LOCUS	AQ838165	574 bp	DNA
DEFINITION	AQ838165	574 bp	GS
ACCESSION	AQ838165	574 bp	EST
VERSION	AQ838165.1	574 bp	12-JAN-2001
KEYWORDS			EST
SOURCE			
ORGANISM	Homo sapiens		
JOURNAL	Eukaryota		
MEDLINE	Metazoa		
COMMENT	Chordata		
TI	Craniata		
TI	Vertebrata		
TI	Euteleostomi		
TI	Mammalia		
TI	Eutheria		
TI	Primates		
TI	Catarrhini		
TI	Hominoidea		
TI	Hominidae		
TI	Homo		
TI			
REFERENCE	1		
AUTHORS	Dias Neto, S., Garcia Correa, R., Verjovski-Almeida, S., Briones, M.R., Nagao, P.A., da Silva, W.J.R., Zagatto, M.A., Bordin, S., Costa, F.F., Goldin, G.H., Carvalho, A.P., Matsukuma, A., Bala, G.S., Simpson, D.H., Brustein, A., de Oliveira, P.S., Bucher, P., Jongenel, C.V., O'Hare, M.T., Soares, R., Brentani, R.R., Reis, L.F., de Souza, S.J. and Simpson, A.J.		
TI	Sequence-tagged connectors: A sequence approach to mapping and scanning the human genome		
JOURNAL	Proc. Natl. Acad. Sci. U. S. A.	96 (17), 9739-9744 (1999)	
MEDLINE	993805889		
COMMENT	Contact: Mahairas GG, Wallace JC, Hood L High throughput Sequencing Center University of Washington 401 Queen Anne Avenue North, Seattle, WA 98109, USA Tel: (206) 616-3618 Fax: (206) 616-3887 Email: jwallace@u.washington.edu Clones may be purchased from Research Genetics (info@researchgenetics.com). BAC end Web Server: <a href="http://www.hgsc.washington.edu">http://www.hgsc.washington.edu</a> Plate: 4712 Row: K Column: 20 Seq primer: T7 Class: BAC ends High quality sequence stop: 574.		
FEATURES	Location/Qualifiers		
source	ab_xref="taxon:9606"		
organism="Homo Sapiens"	ab_xref="taxon:9606"		
/clone="Plate=4712 Col=20 Row=R"	clone_id="IT0022"		
/clone.lib="CIT Approved Human Genomic Specimen Library"	dev_stage="Adult"		
note="Organ: epid tumor; Vector: puc18; Site:1: Small; a mini-library was made by cloning products derived from ORESTES PCR (U.S. Letters Patent application No. 196,716 - Ludwig Institute for Cancer Research) clones into the pUC 18 vector. Reverse transcription of mRNA and cDNA amplification were performed under			

BASE COUNT 168 a low stringency conditions."  
 ORIGIN 55 c 130 g 103 t

Query Match 5, 7%; Score 47; DB 11; Length 456;  
 Best Local Similarity 58.0%; Pred. No. 1.8;  
 Matches 83; Conservative 0; Mismatches 60; Indels 0; Gaps 0;

OY 142 TTCTCTTTCACGTCACTA-TTTTCAACCACTCACATGGCTAACATAACTGCT 200  
 Do 346 TTTCAGTGTACCTCTACAGCTATCAGCATGCCCTCATGGCTTAATACCATCT 405

JY 182 ATGGCTACATAAACATGCTGCAAGCTATGATGCCAAATCTATCTCTAGGCTCAAC 241  
 Db 317 ATAGATTCAATGCCATTCTAATGCTAACATGCACTAACGCTCCATCTCACGCAC 218

Db 242 TGGTCCAGAGATAAAGTAGATGATCAATGCACTAACGCTCCATCTCACGCAC 198  
 Db 257 TTGGHGTCTRACTGAGACACATCTAGAGAGTTTGACATCTCCATASAGCTC 175

302 TAAGACGTTCAACATACAAAC 324  
 197 CACAGACATCTCAGATCCGAAC 175

RESULT 6

AQ542774 553 bp DNA GSS 110 MAY-1999  
 LOCUS A0542774 RPCI-11-361113.TV Homo sapiens genomic clone RPCI-11-361113  
 DEFINITION DNA sequence.  
 ACCESSION A0542774  
 VERSION A0542774.1 GI:4873230  
 KEYWORDS GSS.  
 SOURCE human.  
 ORGANISM Homo sapiens  
 REFERENCE 1 (bases 1 to 553)  
 AUTHORS J.C. Zhao, S., Adams, M.D., Nierman, W., Malek, J., de Jong, P. and Venter  
 TITLE Use of BAC End Sequences from Library RPCI-11 for Sequence-Ready  
 JOURNAL Map Building  
 COMMENT Unpublished (1997). Contact: Shaving Zhao, William Nierman, Mark Adams,  
 Department of Eukaryotic Genomics  
 The Institute for Genomic Research  
 9712 Medical Center Dr., Rockville, MD 20850  
 Tel: 301 838 0200  
 Fax: 301 838 0208  
 Email: hbe@tigr.org  
 Clones are derived from the human BAC library RPCI-11. For BAC  
 library availability, Please contact Pieter de Jong  
 (pieter.dejong.med.buffalo.edu). Clones may be purchased from  
 BACPAC Resources ([http://bacpac.med.buffalo.edu/ordering\\_bac.htm](http://bacpac.med.buffalo.edu/ordering_bac.htm)).  
 Research Genetics ([info@resogen.com](http://info@resogen.com)). BAC end search page:  
[http://www.tigr.org/tdb/humgen/bac\\_end\\_search/bac\\_end\\_search.html](http://www.tigr.org/tdb/humgen/bac_end_search/bac_end_search.html)  
 Seq primer: T7 Class: BAC ends.

FEATURES source

1. .553 Location/Qualifiers  
 /organism="Homo sapiens"  
 /db\_xref="GDB-7638116"  
 /db\_xref="taxon:9606"  
 /clone="RPCI-11-361113"  
 /clone\_id="RPCI-11"  
 /sex="Male"  
 /cell\_type="Lymphocytes"  
 /notes="Vector: PBACE3.6: Site:1: EcorI; Site:2: EcoRI;  
 BASE COUNT 169 a 121 c 84 g 179 t

ORIGIN 190 c 166 g 212 t

Query Match 5, 6%; Score 46.2; DB 13; Length 749;  
 Best Local Similarity 58.3%; Pred. No. 2.5;  
 Matches 81; Conservative 0; Mismatches 58; Indels 0; Gaps 0;

OY 111 CTGTCCTGGAATTCGCTCTCATGGCTTTCACGCTATCTATTTCT 170

BASE COUNT 5, 6%; Score 46.4; DB 13; Length 553;  
 ORIGIN 62.9%; Pred. No. 2.4;保守型 0; Mismatches 51; Indels 1; Gaps 1;

Query Match 5, 6%; Score 46.4; DB 13; Length 553;  
 Best Local Similarity 62.9%; Pred. No. 2.4; 保守型 0; Mismatches 51; Indels 1; Gaps 1;





		RESULT	12
F773318	BR773318	417 bp	mRNA
OCCUR	CMS-IT0048-161200-570-e04 IT0048	Homo sapiens	cDNA, mRNA sequence
DEFINITION	CMS-IT0048-161200-570-e04 IT0048	Homo sapiens	cDNA, mRNA sequence
EXCEPTION	BF773318		
VERSION	BF773318.1	GI:12121218	
EDWORDS	EST..		
SOURCE	human.		
ORGANISM	Homo sapiens		
	Bukay-Yota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi		
AUTHORS	Mammalia; Butheria; primates; Catarrhini; Hominoidea; Homo; Dias Neto,E., Garcia Correa, R., Verjovski-Almeida, S., Briones, M., Nagai, M.A., da Silva, W. JR., Zago, M.A., Bordim, S., Costa, F.F., Goldman, G.H., Carvalho, A.P., Matsukuma, A., Bala, G.S., Simpson, D., Brunstein, A., de Oliveira, P.S., Bucher, P., Jonneel, C.V., M.J., Soares, F., Brentani, R.R., Reis, L.F., de Souza, S.J. and Simpson, A.J.		
TITLE	Shotgun sequencing of the human transcriptome with ORF expressed sequence tags		
JOURNAL	Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)		
EDLINE	2020263		
COMMENT	Contact: Simpson A.J.G.		
Laboratory of Cancer Genetics			
Ludwig Institute for Cancer Research			
Rua Prof. Antonio Prudente 109, 4 andar, 01500-010, Sao Paulo - Brazil			
Tel: +55-11-27091922			
Fax: +55-11-2707001			
E-mail: asimpson@ludwig.org.br			
This sequence was derived from the FAPESP/LICR Human Cancer Genome Project. This entry can be seen in the following URL			
(http://www.ludwig.org.br/scripts/gethtml2.cgi?CM=it0048-161200-570-e04&t=3-2000-12-16&t=1)			
Seq primer: puc 18 forward			
High quality sequence start: 32			
High quality sequence stop: 417			
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	1. .417/		
	/organism="Homo sapiens"		
	/db_xref="txon:9606"		
	/clone_id="IT0048"		
	/dev_stage="Adult"		
	/note="Organ: epid_tumor; Vector: puc18; Site1: Small; Site2: Small; A mini-library was made by cloning products derived from ORESSES PCR (U.S. Letters Patent application No. 195,716 - Ludwig Institute for Cancer Research) profiles into the pUC 18 vector. Reverse transcription tissue mRNA and cDNA amplification were performed under low stringency conditions."		
ASB COUNT	95 a		
ORIGIN	116 c		
	56 g		
	150 t		
Query Match	5.3%	Score 43.8; DB 11; Length 417;	
Best Local Similarity	56.6%	Pred. No. 9.2;	
Matches	81;	Conservative 0; Mismatches 62; Indels 0; Gaps	
y	182 ATGCCTACATAACTGTCGCAACCTATGATGCCAATATCCTATCTCTAGCCTCAAC	241	
b	234 ATAGATCGTAAATGCCATTCTTGTGATTAAGCTCAATATCTCTATCCAGGCCAATC	293	
y	242 TTTGTCGAGAGAAAATGATGATTCATGATCACATGACATCACGTCCTCTTGAGGT	301	
b	294 TTGTCCTGACTCGAACCACTGTAGAGAGTTTGACATCTCCACTAGACAGTC	353	
y	302 TAAGACGCTTCACATACAAC	324	

AL1392863	A139263	440 bp mRNA	EST	30-MAR-1999
DEFINITION	t905a8:xl NCI- <u>CGAP_CU1</u> Homo sapiens	CDNA clone	IMAGE:2107862	3'
mRNA sequence				
ACCESSION	AI139263			
VERSION	A139263.1			
KEYWORD	EST			
SOURCE	human			
JOURNAL	unpublished (199)			
COMMENT	Contact: Robert Strauberg, Ph.D. Email: cgbbs@jagmail.nih.gov			
ORGANISM	Bukarrotia; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.			
REFERENCE	I (bases 1 to 450)			
AUTHORS	NCI- <u>CGAP</u> , <a href="http://www.ncbi.nlm.nih.gov/ncicap">http://www.ncbi.nlm.nih.gov/ncicap</a> .			
TITLE	National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index			
PI				
CDNA LIBRARY	Louis M. Staudt, M.D., Ph.D.			
DNA SEQUENCING	Arrayed by: Greg Lennon, Ph.D.			
Clone distribution	Washington University Genome Sequencing Center found through the J.M.A.G.E. Consortium/LINT at: <a href="http://www.ncbi.nlm.nih.gov/obpr/image.html">www.ncbi.nlm.nih.gov/obpr/image.html</a>			
Insert Length	1363	Std Error: 0.00		
Seq primer	-40bp from G1600			
High quality sequence stop	433.			
FEATURES	Location/Qualifiers			
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	/db_xref="taxon:606"			
	/clone="IMGBP:2107862"			
	/clone_id="NCI- <u>CGAP_CU1</u> "			
	/tissue_type="B-cell, chronic lymphotic leukemia"			
	/lab_host="DH10B"			
NOTE	vector: pT7T3D-Pac (Pharmacia) with a modified polymerase site; 1: Not I; Site 2: Eco RI; 1st strand cDNA was printed with a Not I - oligo(dT) primer [5'- TGTACCATCTTGAGGGGAGGCCGATTTTTTTTTTTTT T 3'] ; double-stranded cDNA was ligated to Eco RI adapters (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pT7T3 vector. Library is normalized, and was constructed by Bento Soares and M.Fatima Bonaldo."			
BASE COUNT	123 c	55 g	166 t	
ORIGIN				
Query Match				
Best Local Similarity	51.3%	Score 43.8;	DB 10;	Length 450;
Matches	81;	Pred. No. 9.1;		
Conservative		0;	Mismatches	62;
OY		Indels	0;	Gaps
DB	182 ATGGCTACATAAATCTGTCGGCAAGCTTATGATCCAAATATCCTCTAGCTCTCAATC 241			
DB	135 ATGAGTTCATATGCCATTCTATGCTAACGCCTCAATTCCTTCAGGCCAAATC 194			
OY	212 TTGTGCGGAAGATAAAGTAGTATTCAATGGCACATCACGTCCTACTGGAGGCT 301			
DB	105 TTTGTCGCCGAACTCAGAACACATGTAGAAGAGCTTGTGACATCTCCACTAGGAGTC 254			
OY	302 TAAGACCTTCACATCAAC 324			
DB	215 CAGGACCTCTCAGATCCGAAC 277			
RESULT	14			
AW14814	AW614814	492 bp mRNA	EST	23-MAR-2000
LOCUS	AW614814			
DEFINITION	kg80aa2_x1 NCIC- <u>CGAP_Kid11</u> Homo sapiens	CDNA clone	IMAGE:2951882	3'
VERSION	kg80aa2_x1			
KEYWORD	mRNA Sequence			
ACCESSION	AW614814			



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